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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/939,853	08/27/2001	Catherine E. Burgess	21402-099 (CURA-399)	3236	
30405	7590 03/22/2004	EXAMINER			
MILLENN	IUM PHARMACEUT	MARTINELL, JAMES			
40 Landsdov	vne Street GE, MA 02139	ART UNIT	PAPER NUMBER		
CAMBRIDO	JE, MA 0213)		1631		
		DATE MAIL ED. 02/22/2004			

DATE MAILED: 03/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)				
Office Action Summary		09/939,853		BURGESS ET AL.				
		Examiner		Art Unit				
		James Martinell		1631				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) filed on 29 December 2003.							
, —	This action is FINAL . 2b)⊠ This action is non-final.							
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) 🖂	Claim(s) 5-14,19-21,39,42,46,47 and 50-71 is/	are pending in the	application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.							
•	laim(s) <u>71</u> is/are allowed.							
6) Claim(s) 5-14,19-21,39,42,46,47 and 50-70 is/are rejected.								
•	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
•								
	ion Papers							
, —	The specification is objected to by the Examine		atad ta bu tha E	Vaminar				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
-	-	nciority under 25 l	I S C S 110(a)	(d) or (f)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
a) ☐ All b) ☐ Some c) ☐ None of. 1. ☐ Certified copies of the priority documents have been received.								
Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) X Infor	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date <u>料付</u> 2 ₁ に加りて、ケルグタ	5) 🔲 N	5) Notice of Informal Patent Application (PTO-152)					

Application/Control Number: 09/939,853

Art Unit: 1631

The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01. Embedded hyperlink and/or other form of browser-executable code appear in at least the following locations:

- (a) page 12, line 19 and
- (b) page 15, line 4.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6, 7, 52-60, and 65-70 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are vague, indefinite, and incomplete.

- (a) The recitation of "naturally-occurring allelic nucleic acid variant" (claim 6) is vague, indefinite, and incomplete because the term "naturally-occurring" is a relative one that uses a frame of reference that is not known. One cannot know whether a sequence is non-naturally-occurring by having the sequence itself because this is not a property of the sequence. Thus, the metes and bounds of the claims are not clear.
- (b) The recitation of "naturally-occurring polypeptide variant" (claim 7) is vague, indefinite, and incomplete because the term "naturally-occurring" is a relative one that uses a frame of reference that is not known. One cannot know whether a sequence is non-naturally-occurring by having the sequence itself because this is not a property of the sequence.

 Thus, the metes and bounds of the claims are not clear.
- (c) The recitation of "protein tyrosine kinase-like activity" (claim 52) is vague and indefinite. It is not clear how much the activity of enzymes other

Application/Control Number: 09/939,853

Art Unit: 1631

than tyrosine kinases need to resemble tyrosine kinase activity to be embraced by the claims.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 5-14, 19-21, 39, 42, 46, 47, 50-52, and 54-70 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for nucleic acids of defined sequence, does not reasonably provide enablement for nucleic acids of recited percentage sequence identities or nucleic acids that encode polypeptides of recited percentage sequence identities. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. The instant application does not provide adequate guidance for one of skill in the art to arrive at a reasonable number of nucleic acid sequences that encode active variants of SEQ ID NO: 75. For example, there are no fewer than 5×10^{46} possible insertion variants of SEQ ID NO: 75 that vary by no more than 15% in sequence identity from SEQ ID NO: 75. Without guidance as to which variants may be active, one of skill in the art would be compelled to perform undue experimentation to practice the claimed invention.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 53 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by GenBank® Accession No. AC026539. Each of SEQ ID NOs: 140, 141, and 142 are contained in GenBank® Accession No. AC026539 (see Appendices A, B, and C for alignments of each of SEQ ID NOs: 140, 141, and 142 with

Art Unit: 1631

the reference sequence). Thus, the sequence of GenBank® Accession No. AC026539 is embraced by the claim.

Claim 52 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Pharmacia P-L Biochemicals 1984 Product Reference Guide (pages 36-37). Claim 52, part (c) is not limited to nucleic acids that consist of 15 or more contiguous nucleotides of SEQ ID NOs: 74 or 75. Thus, the oligo(dA) and oligo(dT) molecules that contain 15 or more bases each are embraced by the claims.

Claims 65 and 67 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Baxter et al (U.S. Patent No. 4,350,764).). Claim 52, part (c) is not limited to nucleic acids that consist of 15 or more contiguous nucleotides of SEQ ID NOs: 74 or 75. Thus, any plasmid and host cell that contains 15 or more nucleotides is embraced by the claims (*e.g.*, any plasmid that contains either of the sequences in Fig. 1 of the reference as is disclosed in column 6, line 30 – column 8, line 32).

Claim 71 is allowable over the prior art of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Martinell whose telephone number is (571) 272-0719. The fax phone number for Examiner Martinell's desktop workstation is (571) 273-0719. The examiner works a flexible schedule and can be reached by phone and voice mail. Alternatively, a request for a return telephone call may be e-mailed to james.martinell@uspto.gov. Since e-mail communications may not be secure, it is suggested that information in such requests be limited to name, phone number, and the best time to return the call.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, can be reached on (571) 272-0722.

Application/Control Number: 09/939,853

Art Unit: 1631

PLEASE NOTE THE NEW FAX NUMBER

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

James Martinell, Ph.D. Primary Examiner Art Unit 1631